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| 10/671,374   | 09/25/2003  | Woo Seong Yoon              | 1630-0424PUS1       | 1870             |
| 2292 7590 09/19/2011<br>BIRCH STEWART KOLASCH & BIRCH<br>PO BOX 747<br>FALLS CHURCH, VA 22040-0747 |             |                             |                     |                  |
| EXAMINER<br>ADAMS, EILEEN M  |             |                             |                     |                  |
| ART UNIT<br>2481   |             | PAPER NUMBER                |                     |                  |
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

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# Office Action Summary

## Application No.

10/671,374

## Applicant(s)

YOON ET AL.

## Examiner

EILEEN ADAMS

## Art Unit

2481

**Period for Reply**  
-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 04 June 2010.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on \_\_\_\_; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 5) ☒ Claim(s) 1, 4, 5, 17, 21, 22, 24, 25, 27, 31, 33, 36, 42, 50, 52-54, 56 and 59 is/are pending in the application.
- 5a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 6) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 7) ☒ Claim(s) 1, 4, 5, 17, 21, 22, 24, 25, 27, 31, 33, 36, 42, 50, 52-54, 56 and 59 is/are rejected.
- 8) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 9) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☒ The drawing(s) filed on 25 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 12) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- ☒ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-946)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_

**DETAILED ACTION**  
***RESPONSE TO ARGUMENTS***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on June 4, 2010.
2. Applicant's amendment and remarks filed June 4, 2010 with respect to the rejections of Claims 1-6, 12, 17, 21, 22, 24, 25, 27, 31, 33-36, 42, 43, 47-55, 58 and 59 are rejected under 35 U.S.C. 102(e) and Claims 56 and 57 under 35 U.S.C. §103(a) have been considered and the rejections to the claims under 102(e) have been withdrawn. However upon further consideration, a new ground of rejection has been entered for all pending claims.
3. In an effort to move the application forward, Examiner has provided suggestions for amending claim language to overcome the cited prior art.

4. Regarding Applicant's first argument:

"Also, one skilled in the art would know that processing system environment settings (i.e., Applicant's claimed invention) is performed prior to reproducing A/V data on the recording medium (per Chung). Therefore, Chung's use of the [A.HTM] directory to display an output with reference to video reproduction information is different from the system environment settings of the present invention. Thus, for a second reason, amended independent claim 1 patentably defines over Chung" [Page 14 paragraph 1]

Examiner respectfully submits Chung discloses the limitation as claimed 'setting a system environment according to system environment elements prior to reproducing A/V data' where specific types of system environment elements are not claimed in Applicant's invention. Under the broadest reasonable interpretation in light of the specification 'system environment elements' is open to a range of system environment elements prior to output where determination of font could qualify "various information items for system environment setting included in the start-up file ... read and interpreted to initialize the ENAV environment, for example. The various information items may comprise information about contents to be loaded in a memory before the playback" (Yoon et al. Pub. No.: US 2004-0175154 [0086]). Accordingly, the rejections to said claims stand (See rejection contained herein).

5. Regarding Applicant's second argument:

"Furthermore, Chung also does not disclose or suggest Applicant's claimed system environment elements corresponding to at least one of playback right information, region code information, language information of the additional contents, and memory management information. The Official Action also asserts that Chung's right to output determined font corresponds to Applicant's claimed playback right. However, in Chung, when there is no suitable font, a font that can be replaced and displayed on the screen is searched and displayed on the screen using additional information when preloading of the font. However, Applicant's claimed playback right is information authorizing access to A/V data on the recording medium. Chung's ability to substitute fonts is not related to Applicant's claimed playback right. Chung does not disclose the other features recited in the alternative in the above-identified claim element. Thus, for a third reason, amended independent claim 1 patentably defines over Chung." [Page 14 paragraph 2]

Examiner respectfully submits Applicant does not directly nor conceptually claim 'authorizing access to A/V data' as a form of playback right. It is well established in the art that 'playback' and 'output' can be construed to perform the same function. In addition, Chung discloses other features recited in the alternative in the above-identified

claim element. Accordingly, the rejections to said claims stand (See rejection contained herein).

6. Regarding Applicant's third argument:

"Furthermore, Chung does not disclose or suggest Applicant's claimed memory management information associated with a space of the temporary storage area for storing at least the start-up file. Thus, for a fourth reason, amended independent claim 1 patentably defines over Chung" [Page 14 paragraph 3]

Examiner respectfully submits Chung discloses Applicant's memory management information identifying with a space of the temporary storage area as detailed in the instant Office Action where Examiner has provided additional citation to Chung. Accordingly, the rejections to said claims stand (See rejection contained herein).

7. Regarding Applicant's fourth argument:

"Additionally, there is no reference in Chung to an external server storing the additional contents. Thus, for a fifth reason, amended independent claim 1 patentably defines over Chung. "[Page 14 paragraph 4]

Examiner respectfully submits Chung discloses Applicant's external server storing the additional contents as detailed in the instant Office Action where Examiner has provided

additional citation to Chung. Accordingly, the rejections to said claims stand (See rejection contained herein).

8. Regarding Applicant's fifth argument:

"Applicant has considered the remaining applied references and submits that the remaining references do not cure the deficiencies of Chung. As none of the cited art, individually or in combination, disclose or suggest at least the above-noted features of independent claims 1, 31 and 50, Applicant submits the inventions defined by claims 1, 31 and 50, and all claims depending therefrom, are not rendered obvious by the asserted references for at least the reasons stated above" [Page 15 paragraph 3]

Examiner respectfully submits Kelts (US 2001/0030667 A1) cures the deficiencies of Chung, where Kelts is an obvious improvement over Chung. Accordingly, the rejections to said claims stand (See rejection contained herein).

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. **Claims 1, 4-5, 17, 21, 22, 24, 25, 27, 31, 33-36, 42, 50, 52-54, 56, and 59** are rejected under 35 U.S.C. 103(a) as being unpatentable over Chung et al. (US 2003/0086690 A1) in view of Kelts (US 2001/0030667 A1).
10. **Regarding Claim 1**, Chung teaches **a method for setting a playback environment for a recording medium** (Fig. 9), **the method comprising: loading a start-up file into a temporary storage area** (in at least Fig. 5, A.HTM under the KOR directory; Paragraphs [0062,0064]);

Chung does not disclose but Kelts discloses **a start-up file including server access information** (start-up configuration files to include server map information to communicate with said server "management of navigation maps XML configuration files to allow easy connection to legacy databases, and utilities to make deployment of maps a simple process ... accessed via the Internet by the entity that deploys the navigation system architecture... communicate with the map system servers in a suitable manner to enable direct customization of interactive map interfaces" [0054]);

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Chung to include **a start-up file including server access information**, as taught by Kelts to provide a navigation interface system configured in a layered architecture whereby the system is deployed in a centralized mode using remote servers whereby the system of Chung would benefit from the additional features



designed to enhance the display of useful information to the user and to make it easier for the user to view and locate appropriate content.

Chung discloses **setting a system environment according to system environment elements prior to reproducing A/V data recorded on the recording medium** (in at least Figs. 9; Fig. 10A, 1000-1030; Fig. 10B, 1001-1031; Fig. 11A, 1110-1200; Paragraphs [0024, 0035, 0040, 0042]),

**wherein the system environment elements correspond to at least one of playback right information** (Paragraphs [0078-0080] - right to output determined font), **region code information** (in at least Figs. 6A, 6B - language code), **language information of the additional contents, and memory management information** (Fig. 5 - Korean, Japanese, English; Paragraphs [0067-0068]),

**wherein the memory management information identifies a space of the temporary storage area for storing at least one of the start-up file** (Figs. 8 & 9 – management information correlated to regions for DVD-interactive data; where identification takes place for temporary buffer storage through the interactive data-interpreting engine 940 “Referring to FIG. 9, the interactive optical storage medium 900 includes information for controlling the interactive data ... A first memory 910 buffers the A/V data, which are compressed and read from the interactive optical storage medium 900. A second memory 920 stores the interactive data read from the interactive optical storage medium 900 ... An

A/V data decoder 930 decodes the A/V data stored in the first memory 910. The interactive data-interpreting engine 940 ... used for interpreting the interactive data read from the second memory 920 or a third memory 960. When a command to preload the interactive data is included in the interactive data-interpreting engine 940, the interactive data-interpreting engine 940 preloads the interactive data into the second memory 920" [0089-0091]) **and the additional contents** (Fig. 5, A.HTM, B.HTM, C.HTM),

**wherein the additional contents are differently designated according to the playback right information or the region code information**

(Paragraphs [0078-0080] - right to output determined font for various languages; Fig. 5, Korean, Japanese, English);

**determining an availability of the additional contents based on control data received through a communication network from an external server, the external server** ("When there is no font that is identical with the ID in the apparatus, the apparatus tries to takes a font from a web server or an optical information storage medium" [0076]; Claim 50) **storing the additional contents** (in at least Fig. 8, 800 - control information; Fig. 10A, 1000; Fig. 10B, 1001; Fig. 11A, 1110; Paragraphs [0063, 0087] - further clarified in that the system in Figs. 10A, 10B and 11A determine which fonts are there to load, thus determining availability of additional contents; Paragraph [0041,0076,0092]; see Fig. 5, DVD interactive directory with associated language directories);

**storing the additional contents in a temporary storage area** (in at least Figs. 9; Fig. 10A, 1030; Fig. 10B, 1021,1031 ; Paragraphs [0024, 0035, 0040, 0042]) **as a result of determined step** (Paragraphs [0063, 0087]; Fig. 10A, 1030; Fig. 10B, 1021,1031 ; Fig. 11A, 1121,1160); **and reproducing the A/V data and the additional contents loaded in the temporary storage area according to the control data** (in at least Fig. 9, 950; Fig. 10A, 1040,1050; Fig. 10B, 1041, 1051; Paragraphs [0024,0092]),

**wherein said additional contents includes at least one of an HTML file, an image file and a sound file** (Fig. 5 - various languages having html document files; Paragraphs [0062-0064]).

11. **Regarding Claim 4**, Chung teaches **the method of claim 1, further comprising: storing the control data in the temporary storage area** (in at least Figs. 9; Fig. 10A, 1030; Fig. 10B, 1021,1031 ; Paragraphs [0024,0035,0040,0042]), **prior to the A/V data being reproduced** (in at least Figs. 9; Fig. 10A, 1030; Fig. 10B, 1021,1031; Paragraphs [0024,0035,0040,0042]).
12. **Regarding Claim 5**, Chung teaches **the method of claim 1, further comprising: loading the first data into the temporary storage area prior to loading the additional contents in the temporary storage area** (see Abstract;

Paragraphs [0060,0064;0087,0088,0090]).

13. **Regarding Claim 17, Chung teaches the method of claim 1, wherein at least a portion of the additional contents associated with the A/V data is preloaded in the temporary area in advance of reproducing the A/V data (see Abstract; Paragraphs [0060,0064;0087,0088,0090]), so that the A/V data can be seamlessly reproduced in synchronization with respective additional contents (see Abstract, and in at least Paragraphs [0062,0073,0081,0083]).**
14. **Regarding Claim 21, Chung teaches the method of claim 1, wherein the step of storing the additional contents comprises: setting a language of the additional contents (Fig. 5 - Korean, Japanese, English; Paragraphs [0067-0068]); and allocating a space in the temporary storage area based on the control data to store the additional contents (in at least Fig. 8, 800 - control information; Fig. 10A, 1000; Fig. 10B, 1001; Fig. 11A, 1110; Paragraphs [0063,0087- 0089]).**
15. **Regarding Claim 22, Chung teaches the method of claim 21, further comprising: processing setup information designated within the control data (Paragraphs [0042,0046,0061,0063-0065]), the setup information comprising information related to a menu screen (Paragraph [0061]).**

16. **Regarding Claim 24**, Chung teaches **the method of claim 1, wherein the step of reproducing the A/V data comprises: synchronizing reproduction of the additional contents and the A/V data** (Paragraphs [0040,0092]).
17. **Regarding Claim 25**, Chung teaches **the method of claim 1, wherein the step of storing the additional contents comprises: preloading the additional contents in the temporary storage area in advance of reproducing the A/V data recorded on the recording medium** (see Abstract; Paragraphs [0060,0064;0087,0088,0090]).
18. **Regarding Claim 27**, Chung teaches **the method of claim 1, wherein new additional content is preloaded in the temporary storage area** (see Abstract; Paragraphs [0060,0064;0087,0088,0090]) **as storage space in the temporary storage area becomes available when the additional content stored in the temporary storage area is reproduced** (see Abstract; Paragraphs [0060,0064;0087,0088,0090]; see Fig. 11A).
19. **Regarding Claim 31**, Chung teaches **A non-transitory computer-readable recording medium** (as further clarified in at least Fig. 9, 900; Abstract, Paragraphs [0021+]) **comprising instructions configured to cause a device to perform the following steps:**

**load a start-up file into a temporary storage area** (in at least Fig. 5, A.HTM under the KOR directory; Paragraphs [0062,0064]);

Chung does not disclose but Kelts discloses **wherein the start-up file includes server access information** (See rationale and motivation as applied to Claim 1);

Chung discloses **set a system environment according to system environment elements prior to reproducing audio/video (A/V) data recorded on the recording medium** (See said analysis for Claim 1), **wherein the system environment elements correspond to at least one of playback right information, region code information, language information of additional contents associated with the A/V data, and memory management information** (See said analysis for Claim 1),

**wherein the memory management information identifies a space of the temporary storage area for storing at least one of the start-up file and the additional contents** (See said analysis for Claim 1),

**and wherein the additional contents are differently designated according to the playback right information or the region code information** (See said analysis for Claim 1);

**determine an availability of the additional contents based on control data received through a communication network from an external server, the external server storing the additional contents** (See said analysis for

Claim 1);

**store the additional contents in the temporary storage area** (in at least Figs. 9; Fig. 10A, 1030; Fig. 10B, 1021,1031; Paragraphs [0024, 0035, 0040, 0042]) **as a result of the determining step** (Paragraphs [0063,0087]; Fig. 10A, 1030; Fig. 10B, 1021,1031; Fig. 11A, 1121,1160);

**and reproduce the A/V data and the additional contents loaded in the temporary storage area according to the control data** (in at least Fig. 9, 950; Fig. 10A, 1040,1050; Fig. 10B, 1041,1051; Paragraphs [0024,0092]), **wherein said additional contents includes at least one of an HTML file, an image file and a sound file** (Fig. 5 - various languages having html document files; Paragraphs [0062-0064]).

20. **Regarding Claim 33**, Chung teaches **the computer-readable medium of claim 31, wherein the control information comprises an address of a content provider remotely accessible through a communications network** (Paragraph [0064,0065,0070,0076,0092]; Claim 50).
21. **Regarding Claim 34**, Chung teaches **the computer-readable medium of claim 31, wherein the start-up information comprises access information for accessing the additional contents** (Fig. 8 -interactive data).

22. **Regarding Claim 35**, Chung teaches **the computer-readable medium of claim 34, wherein the start-up information is preloaded into a memory within a player (Fig. 9), before the A/V data is reproduced by the player** (see Abstract; Paragraphs [0060, 0064; 0087, 0088, 0090]).
23. **Regarding Claim 36**, Chung teaches **the computer-readable medium of claim 31, wherein the start-up information further comprises at least one of information about a playback right of the recording medium** (Paragraphs [0078-0080] - right to output determined font), **a region code** (in at least Figs. 6A, 6B -language code), **a language of the additional contents** (Fig. 5 - Korean, Japanese, English; Paragraphs [0067-0068]), **website connection limitations and memory management** (Paragraphs [0089,0090] - AV data allocated in first memory whereas interactive data stored in a second memory; Fig. 9).
24. **Regarding Claim 42**, Chung teaches **the computer-readable medium of claim 31, wherein the start-up information is stored as a markup language file** (in at least Fig. 5, A.HTM under the KOR directory; Paragraphs [0062,0064]).
25. **Regarding Claim 50**, Chung teaches **a medium player system comprising:**



**a temporary storage configured to store a start-up file** (in at least Fig. 5, A.HTM under the KOR directory; Paragraphs [0062, 0064]);

Chung does not disclose but Kelts discloses **a temporary storage with a predetermined capacity** (Fig. 27, 2736 - video memory; Paragraph [0273] - for example video memory of 8 Megabytes)

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Chung to include **a temporary storage with a predetermined capacity**, as taught by Kelts to allow high speed information storage in short amounts of time as in any buffer size while making use of a readily available component whereby the system of Chung would benefit when monitoring of temporary storage capacity is a critical feature and whereby Kelts discloses additional configurations for storage devices which would add to the versatility of Chung.

Chung discloses **an audio/video (A/V) player engine configured to reproduce A/V data recorded on a medium** (Fig. 9);

**and an enhanced player engine configured to reproduce additional contents based on a system environment elements recorded on the medium or received** (Paragraphs [0040,0092]; and in at least Fig. 9, 940; Fig. 10A, 1000; Fig. 10B, 1001; Fig. 11A, 1110; Paragraphs [0063,0087]) **through a communication network from an external server, the system environment elements being used for the additional contents** (Paragraph [0041, 0076,

0092]; Claim 50), **the system environment elements being included in the start-up file** (in at least Fig. 5, A.HTM under the KOR directory; Paragraphs [0062,0064]) **and comprising at least one of information associated with a playback right** (Paragraphs [0078-0080] - right to output determined font), **a region code** (in at least Figs. 6A, 6B - language code), **a language of the additional contents and memory management information** (Fig. 5 - Korean, Japanese, English; Paragraphs [0067-0068]), **the memory management information identifying a space of the temporary storage for storing at least the start-up file and the additional contents** (Fig. 8 - management information correlated to regions for DVD-interactive data; See said analysis for Claim 1); **and a controller** (Figs. 10A, 10B, 11A- controller performing steps outlined in such figures; Fig. 9 - to screen output unit; Claims 67 and 68) **configured to set the system environment elements prior to reproducing the A/V data** (See said analysis for Claim 1),

**control the temporary storage according to the memory management information** (See said analysis for Claim 1),

**and control the A/V player engine and the enhanced player engine to reproduce the A/V data** (See said analysis for Claim 1) **and the associated additional contents in synchronization with each other** (see Abstract, and in at least Paragraphs [0062,0073,0081,0083]),

**wherein the start-up file further comprises a plurality of information items for designating additional content categories, the plurality of**

**information items including playback right information or region code information** (Paragraphs [0078-0080] - right to output determined font for various languages; Fig. 5, Korean, Japanese, English)

**wherein said additional contents includes at least one of an HTML file, an image file and a sound file** (Fig. 5 - various languages having html document files; Paragraphs [0062-0064]).

26. **Regarding Claim 52, Chung teaches the player system of claim 50, wherein the environment elements comprise information about a location where the additional contents can be accessed** (Fig. 5, A.HTM, B.HTM, C.HTM), **and wherein the controller is configured to access the additional contents based on the information about location** (Fig. 5, A.HTM, B.HTM, C.HTM).
27. **Regarding Claim 53, Chung teaches the player system of claim 50, wherein the controller is configured to store the environment elements in the temporary storage, prior to the A/V data being reproduced** (in at least Figs. 9; Fig. 10A, 1030; Fig. 10B, 1021,1031; Paragraphs [0024,0035,0040,0042]).
28. **Regarding Claim 54, Chung teaches the player system of claim 50, wherein the start-up file comprises information about the additional contents to be loaded into the temporary storage, before the A/V data is reproduced** (see Abstract; Paragraphs [0060,0064;0087,0088,0090]), **and wherein the controller**

**is configured to identify the information and to load the additional contents into the temporary storage according to the identified information** (Fig. 9; Fig. 10A, 1000-1030 - loading fonts to be preloaded into memory; 10B, 1011-1031; Fig. 11A, 1120-1200).

29. **Regarding Claim 55**, Chung teaches **the player system of claim 50, wherein the start-up file comprises at least one of information associated with playback right information** (Paragraphs [0078-0080] - right to output determined font), **region code information** (in at least Figs. 6A, 6B - language code), **language of the additional contents** (Fig. 5 - Korean, Japanese, English; Paragraphs [0067-0068]) **and memory management information** (Paragraphs [0089,0090] - AV data allocated in first memory whereas interactive data stored in a second memory; Fig. 9), **and wherein the controller is configured to set the system environment elements according to the information, prior to reproducing the A/V data** (in at least Figs. 9; Fig. 10A, 1000-1030; Fig. 10B, 1001-1031; Fig. 11A, 1110-1200; Paragraphs [0024,0035,0040,0042]).

30. **Regarding Claim 56**, Chung teaches **the player system of claim 50**,  
Chung does not disclose but Kelts discloses **wherein the temporary storage area is in a semiconductor storage device** (Paragraph [0100]- semiconductor memory) (The motivation that applied in Claims 1 and 50 applies

equally to Claim 56)

31. **Regarding Claim 57, Chung teaches the player system of claim 50,**

Chung does not disclose but Kelts discloses **wherein the temporary area has a predetermined capacity** (Fig. 27, 2736 - video memory; Paragraph [0273] - for example video memory of 8 Megabytes) (The motivation that applied in Claims 1 and 50 applies equally to Claim 57)

### ***Conclusion***

32. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eileen Adams whose telephone number is (571) 270-3688. The examiner can normally be reached on Monday-Friday from 7:00-4:00. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Vaughn can be reached on (571) 272-3922. The fax phone number for the organization where this application or proceeding is assigned is 571-270-4688.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have any questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/EILEEN ADAMS/  
Examiner, Art Unit 2481

/William C. Vaughn, Jr./

Supervisory Patent Examiner, Art Unit 2481